

Product Datasheet

NKX2.5 Antibody NBP1-51953

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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NBP1-51953

NKX2.5 Antibody

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

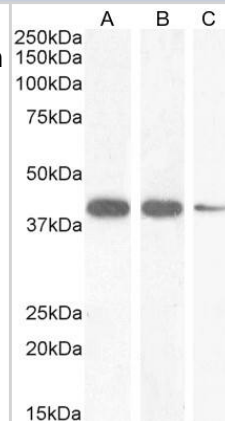
Product Description	
Host	Goat
Gene ID	1482
Gene Symbol	NKX2-5
Species	Human, Mouse, Rat
Marker	Cardiac Progenitor Marker
Specificity/Sensitivity	This antibody is expected to recognize all three reported isoforms (NP_004378.1; NP_001159647.1; NP_001159648.1).
Immunogen	Peptide with sequence C-PRAYSDPDPKDKPR, from the internal region of the protein sequence according to NP_004378.1; NP_001159647.1; NP_001159648.1.

Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Peptide ELISA
Recommended Dilutions	Western Blot 1-3 ug/mL, Immunohistochemistry, Immunohistochemistry-Paraffin 5-6 ug/mL, Peptide ELISA Detection limit 1:32000
Application Notes	WB: Approx. 38kDa band observed in Human, Mouse and Rat Heart lysates (calculated MW of 34.9kDa according to Human NP_004378.1, 34.2kDa according to Mouse NP_032726.1 and 34.3kDa according to Rat NP_446103.2). Primary incubation 1 hour at room temperature.

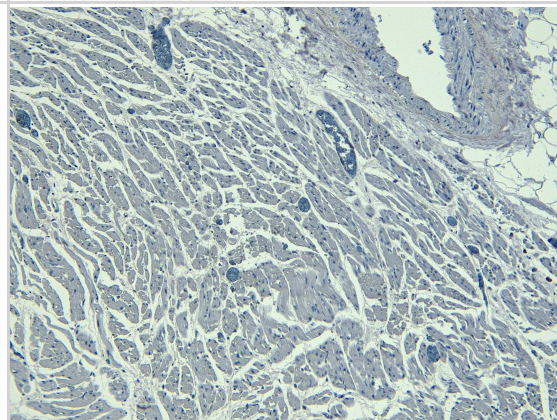


Images

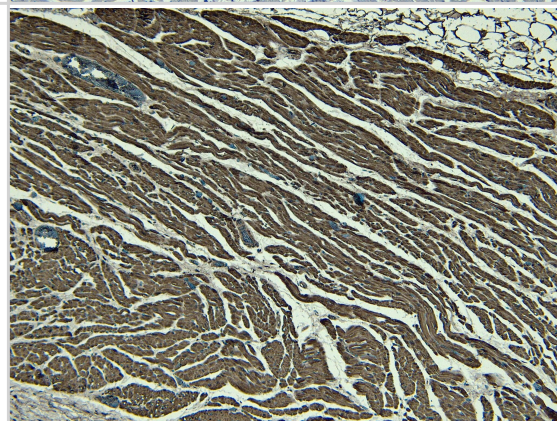
Western Blot: NKX2.5 Antibody [NBP1-51953] - (1ug/ml) staining of Human (A), Mouse (B) and (2ug/ml) Rat (C) Heart lysate (35ug protein in RIPA buffer). Detected by chemiluminescence.



Immunohistochemistry-Paraffin: NKX2.5 Antibody [NBP1-51953] - Negative Control showing staining of paraffin embedded Human Heart, with no primary antibody.



Immunohistochemistry-Paraffin: NKX2.5 Antibody [NBP1-51953] - (6ug/ml) staining of paraffin embedded Human Heart. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



Publications

Markus Krane, Martina Dreßen, Gianluca Santamaria, Ilaria My, Christine M. Schneider, Tatjana Dorn, Svenja Laue, Elisa Mastantuono, Riccardo Berutti, Hilansi Rawat, Ralf Gilsbach, Pedro Schneider, Harald Lahm, Sascha Schwarz, Stefanie A. Doppler, Sharon Paige, Nazan Puluca, Sophia Doll, Irina Neb, Thomas Brade, Zhong Zhang, Claudia Abou-Ajram, Bernd Northoff, Lesca M. Holdt, Stefanie Sudhop, Makoto Sahara, Alexander Goedel, Andreas Dendorfer, Fleur V.Y. Tjong, Maria E. Rijlaarsdam, Julie Cleuziou, Nora Lang, Christian Kupatt, Connie Bezzina, Rüdiger Lange, Neil E. Bowles, Matthias Mann, Bruce D. Gelb, Lia Crotti, Lutz Hein, Thomas Meitinger, Sean Wu, Daniel Sinnecker, Peter J. Gruber, Karl-Ludwig Laugwitz, Alessandra Moretti Sequential Defects in Cardiac Lineage Commitment and Maturation Cause Hypoplastic Left Heart Syndrome *Circulation* 2021-10-26 [PMID: 34694888]

Briggs LE, Takeda M, Cuadra AE et al. Perinatal loss of Nkx2-5 results in rapid conduction and contraction defects. *Circ Res* 2008-09-01 [PMID: 18689573]



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Products Related to NBP1-51953

HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control
314-BP-010	BMP-4 [Unconjugated]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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